FANTEC RayMovie

User Manual

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1. Introduction

1.1 Preface

Thank you very much for purchasing FANTEC RayMovie. We hope you will enjoy using it as a great home entertainment partner. This player has the following functionality.

A/V Output

- HDMI V1.3 for high-definition video and digital audio
- Component video and stereo audio for analogue audio-visual connection
- S/PDIF coaxial interface for high-fidelity digital audio
- Adjustable video output resolution (NTSC, PAL, 480p, 576p, 720p, 1080i, 1080p)

Multimedia Playback

- Supports major audio, video and image file formats (1080p HD video decoding)

Movie format:

AVI, VOB, MKV, MOV, MP4, MPG, TS, WMV, DAT, IFO, RM, RMVB, ISO (DVD & BluRay), AVCHD, MTS, M2TS, M4V, ASF, FLV, XviD, DivX 3/4/5, resolution up to 720p/1080i/1080p

Music format:

MP3, OGG, WMA, WAV, FLAC, DOLBY DIGITAL, DOLBY DIGITAL PLUS, DOLBY TRUE HD, DTS & Downmix

Photo format:

HD JPEG, JPG, BMP, GIF, TIF, PNG, Photo slide show with background music

File Copy

- Supports copying & moving files among USB devices

USB 2.0 Support

- USB HOST port (for USB storage devices and USB-DVD drive)
- DVD playback: supports DVD, Mini BD, AVCHD, VCD, CD

Note: All the information contained in this manual was correct at the time of publication. However, as our engineers are always updating and improving the product, your device's software may have a slightly different appearance or modified functionality than presented in this manual.

1.2 Packing List

Part	**Quantity**
Player	1
Remote Control	1
Remote Control Battery	1
AC/DC adaptor	1
Quick start Guide (printed)	1
CD (with User Manual)	1
Warranty card	1

Note: The actual contents in the package might be different from the packing list in this manual.

1.3 Cautions

The FANTEC RayMovie design and manufacture has your safety in mind. In order to safely and effectively use this player, please read the following before usage.

1.3.1 Usage Cautions

User should not modify this player. If commercial hard disk is being used, the environmental temperature should be within +5°C ~ +35°C.

1.3.2 Power

The player's power voltage: DC 5V.
When using this player, please connect the supplied AC adapter or AC adapter cable to the player's power jack. When placing the adapter cable, make sure it can not get damaged or be subject to pressure. To reduce the risk of electric shock, unplug the adapter first before cleaning it. Never connect the adapter to the player in a humid or dusty area. Do not replace the adapter or cable's wire or connector.

1.3.3 Radio Interference

- If not properly shielded, almost all electronic devices will get radio interference. Under some conditions, your player might get interference.
- The design of this player has followed the CE standard, and has followed the following rules:

(1) This player may not cause harmful interference;
(2) This player could accept some interference received including interference that may cause undesired operation.

1.3.4 Repair

If the player has a problem, you should take it to an appointed repair center and let the specialists do the repair, never repair the player yourself, you might damage the player or endanger yourself or your data.

1.3.5 Disposing of the Player

When you dispose of the player, be sure to dispose it appropriately. Some countries may regulate disposal of electrical device, please consult with your local authority.

1.3.6 Others

When using this player, please do not let the player come into contact with water or other liquid, if water is accidentally spilled on the player, please use a dry cloth to absorb the spillage.

Electronic products are vulnerable, when using please avoid shaking or hitting the player, and do not press the buttons too hard.

Do not let the player come into contact with water or other liquid.

Do not disassemble the player; repair the player or change the design of the player, any damage done will not be included in the repair policy.

Do not press the buttons of the player too hard.

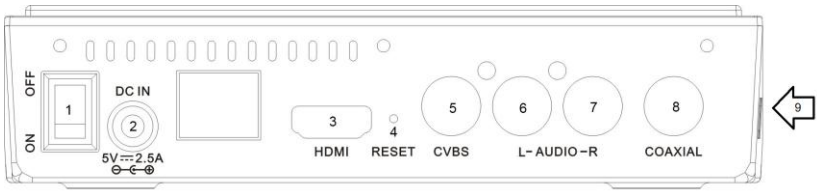
Avoid hitting the player with hard object, avoid shaking the player, and stay away from magnetic fields.

During electrostatic discharge and the strong electromagnetic field, the product will malfunction, then unplug the power cable and the product will return to normal performance next time it is powered on.

1.4 About the Player

Description
Status LED (Red = Standby, Blue = ON)

1.4.1 Connectors



Nr.	Name
1	On/Off switch
2	DC IN (5V input)
3	HDMI output
4	RESET button
5	Video output (CVBS)
6	Audio output left
7	Audio output right
8	Coaxial output
9	2x USB 2.0 host port

2. Remote control

All procedures in this manual can be carried out using the remote control buttons.
See the following for details on each button and its function:

Button	Definition
⏻	Power on/off
🔇	Press to mute the audio output
0~9	Numeric buttons
GOTO	Press to select time to play
INFO	Display file information
SLOW	Press for slow motion playback
ZOOM	Press to zoom in the image (Video/Photo)
REPEAT	Press to change the repeat mode (Off/Repeat all/Shuffle music)
A-B	Press to set start and end point for endless loop playback of fragments inside of video files
◀◀	Press to fast reverse the current playback
▶ ⏸	Press to play/ pause the current playback
▶▶	Press to fast forward the current playback
⏮	1. Press to skip to the previous file 2. Press to skip to the previous page in browser list
■	Press to stop playback
⏭	1. Press to skip to the next file 2. Press to skip to the next page in browser list
Home	Press to enter main menu
VOL -	Press to decrease the volume
VOL +	Press to increase the volume
BACK	Press to return to the previous screen
Navigation button	Press to select menu/file options
OK	Press to confirm the selected file
OPTION	Display sub menu
SETUP	Press to enter setting menu
TV-SYSTEM	Press to switch between NTSC, PAL, 480P, 576P, 720P, 1080I, and 1080P

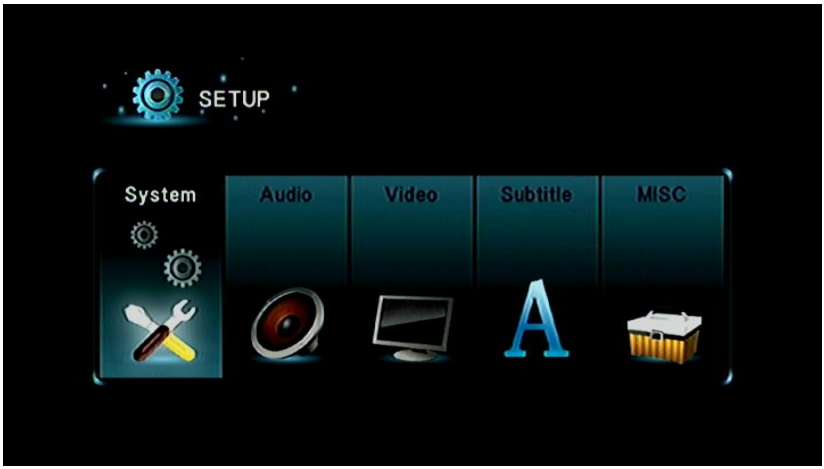
AUDIO	Press to change audio track
SUBTITLE	Press to show subtitle interface for setting
16:9/4:3	Press to switch between 16:9 and 4:3 mode
RED button	Press for additional function at the on screen menu
GREEN button	Press for additional function at the on screen menu
EJECT	Press to disconnect USB storage drives

Note: Remote control operation range:
Within 5-8 m from front panel, angel<30
When using the remote control, please point the remote control towards the device.
Make sure the signal from the remote control to the receiver on the player is not blocked by solid objects.

3. Setup

In the Main Menu use the LEFT and RIGHT buttons to select Setup item and press OK button to enter the menu.

The Setup Menu is divided into four sections:



- **System**: Associated with the entire system environment settings, such as Menu Language, Text Encoding, USB-DVD Auto Start, Screen Saver, Mini Keyboard Language, Scan Storage, Resume Play, Auto Playback after power-on, Format and Factory Default.
- **Audio**: Night Mode, HDMI Output, SPDIF Output, Surround Sound
- **Video**: Aspect ratio, TV system, Video zoom, 1080P 24Hz, Play the directory, Deep color
- **Subtitle:** Intelligent Recognition, Vertical Position, Font Size, Language, Color
- MISC: Version Info, USB upgrade.

3.1 System

3.1.1 Menu Language

Press UP and DOWN buttons to select the language, Press OK button to confirm.

3.1.2 Text Encoding

You can choose the different encoding styles, Unicode (UTF8), Simplified Chinese (GBK), Traditional Chinese (BIG5), Western, Turkish, Central European, Greek, Cyrillic, Hebrew, South East European, Japanese, Korean

3.1.3 USB-DVD Auto Start

This option enables automatic playback a DVD when it's inserted into an USB-DVD drive. If set to ON, the DVD playback will start automatically. If set to OFF, the DVD will not start automatically and has to be started manually in File Manager menu.

3.1.4 Screen Saver

This setup is to enable or disable the screen saver function
Use UP and DOWN buttons to select Off, 30 s, 1, 3, 5, 10 or 30 minutes and OK button to confirm.

3.1.5 MiniKBD Language

Select the language of on screen virtual Mini Keyboard.

3.1.6 Scan storage

This item is to set the scan mode of the storage detection.

3.1.7 Resume Playback

Select to turn on/off resume playback (auto-bookmarking) feature for movies.

3.1.8 Auto Start after power-on

Select to turn on/off automatic playback of video, music or photo files after powering on the device.

3.1.9 Factory Default

Select to restore factory defaults.

3.2 Audio

This menu is to set audio environment.

3.2.1 Night Mode

Choose between **Off** / **On** / **Comfort**. If comfort is turned on, the audio output volume will be decreased to make you more comfortable.

3.2.2 HDMI Output

This setting is optional HDMI Audio on the output mode, including:

- LCPM: Linear pulse code modulation two channel
- LCPM Multi-Channel: Linear pulse code modulation Multi-Channel
- RAW: Audio Raw data

3.2.3 SPDIF Output

Select the Audio SPDIF output modes, including:

- LCPM: Linear pulse code modulation two channel
- RAW: Audio Raw data.

3.2.4 Surround Sound

Select the Surround Sound effect:

- 5.1, 7.1

3.3 Video

This menu is to set up video environmental settings.

3.3.1 Aspect Ratio

- Pan Scan 4:3: Display a wide picture on the entire screen and cuts off the redundant portions. Select when a standard 4:3 TV is connected.
- Letter Box 4:3: Display a wide picture with two black borders on the top and bottom of 4:3 screens. Select when a standard 4:3 TV is connected.
- 16:9: Compress the image to convert the whole image. Select when a 16:9 TV is connected.
- 16:10: Compress the image to convert the whole image. Select when a 16:10 TV is connected.

3.3.2 TV System

This item can choose TV system, options include

- Select to adjust video output resolution: NTSC / PAL / 480P / 576P / 720P 50HZ / 720P 60HZ / 1080I 50HZ / 1080I 60HZ / 1080P 50HZ / 1080P 60HZ.

3.3.3 Video Zoom

This item is to enable or disable the zoom in/out function.

3.3.4 1080P 24HZ

- Choose this option to enable or disable 1080P 24HZ support. A TV set with 1080P 24HZ (24P) mode is needed.

3.3.5 Play the directory

- Choose this option to start continuous playback of DVD, Bluray disc or AVCHD video files.
- ON: Enables continuous playback of DVD and BDMV folder content
- OFF: Enables browsing the content of DVD, Bluray disc or AVCHD folder.

3.3.6 Deep Color

- Help to perform more detailed level of color depth, make continuous color change smoother. You can get more vivid color effects. A TV set with deep color support is needed.
- Choose this option to set the color depth to following modes: Automatic, 12bit, 10bit and Off

3.4 MISC

Other miscellaneous settings.

3.4.1 Version Info

List of various version information including firmware information.

3.4.2 USB Upgrade

- Select **USB upgrade** to update the firmware via a USB stick.
  1) Copy ‘install.img’ to the root directory of a USB stick, and connect it to the USB HOST port of the player.
  2) Press **ENTER** to confirm.

4. Main Menu

In the Mai Menu press the navigational buttons of the remote control to select the menu icons File Manager , Play History, Movies, Music, Photo and Setup.

4.1 File manager

In the File Manager menu you can browse all music, photo and movie files stored on a HDD, external USB device or USB-DVD. To enter the menu, select File Manager from the Main Menu.

4.1.1 Browsing Files

In the File Manager menu you can you following buttons of the remote control: Navigational buttons, PLAY, NEXT + PREVOIUS for page up and down, and OPTION. The OPTION button will open the sub-menu with following functions:

Thumbnail, List, Preview, All Media, Movie, Photos, Music

The yellow marked option displays the currently selected function.

4.1.1.1 Thumbnails

This item is to set the browser to thumbnail mode.

4.1.1.2 List

This item is to set the browser to list mode.

4.1.1.3 Preview

This item is to set the browser to preview mode. When you focus on file, it will play video or display a picture and show some information in the preview window.

4.1.1.4 All Media

All folders and all supported movies, music and photos files will be shown on the screen.

4.1.1.5 Movies

Only Movies files will be displayed.

4.1.1.6 Photos

Only Photo files will be displayed.

4.1.1.7 Music

Only Music files will be displayed.

4.1.2 File Editing

With the GREEN button, you can you copy, delete, move or rename files/folder or use the multiple select option to handle more than a single file/folder.

To edit files / folders, enter the File Manager and press the GREEN button. You even can copy or move files / folders between USB drives .

4.2 History

The History menu displays up to 10 recently played video files that have been interrupted during the playback. You can continue this video at the point at which the playback was stopped.

In the History menu, you can use the following buttons on the remote control: Navigational buttons, PLAY, NEXT + PREVOIUS for page up and down, OPTION and GREEN button.
The GREEN button opens a submenu with the following functions: Delete, Delete all or select multiple.
The OPTION button opens a submenu with the following functions: Thumbnail view, list view, preview view.
The yellow highlighted option is the currently selected function.
During playback, you can press the OPTION button and select from the following options:
- Subtitle, Audio, Goto
- Repeat title, Repeat all, Repeat off
- Video Settings

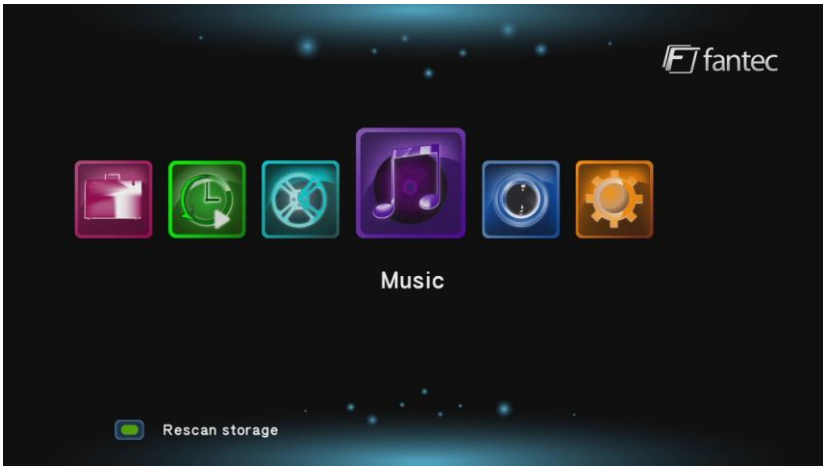
Note: The History will only be saved if you enabled "Resume playback" in the Setup. Please see point 4.1.7 for more details.

4.3 Movie

In the Movies menu all supported video files are displayed. You can browse all video files and can play the video file that you have selected. In the Movies menu you can you following buttons of the remote control: Navigational buttons, PLAY, NEXT + PREVOIUS for page up and down, and OPTION. The OPTION button will open the sub-menu with following functions:
Search, Thumbnails, List, Preview, All movies, Show BD / DVDs, Go to folder – File Manager Menu, Name, Size, Most Viewed, Recently added.
The yellow marked option displays the currently selected function.
During the playback you can press the OPTION button and select between following options:

- Subtitle: Enable subtitle and change position, size, synchronous tuning, text encoding, subtitle color
- Audio: Change the audio track if available
- GOTO: Press to jump to a specific point on a title. Specify the point using by Time, Title or Chapter
- Set repeat mode: Repeat Title, Repeat All, Repeat Off
- Video Setting: Set Brightness, Contrast, Saturation, Hue

4.4 Music

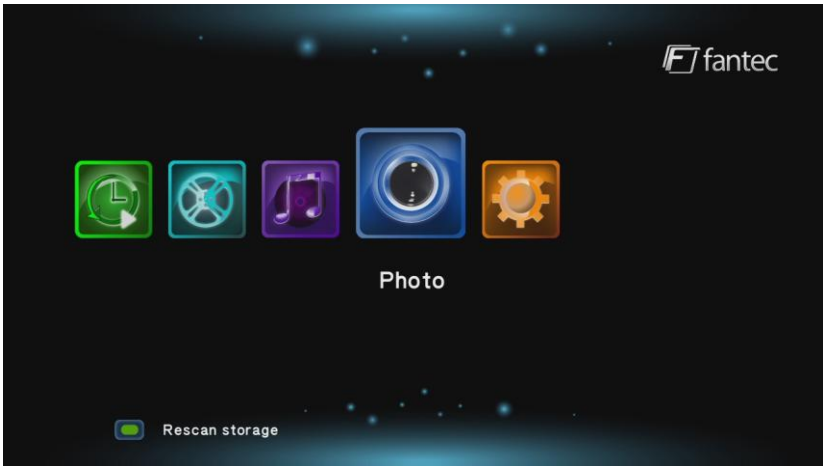


In the Music menu all supported music files are displayed. You can browse all files and can play the music file that you have selected.
In the Music menu you can you following buttons of the remote control: Navigational buttons, PLAY, NEXT + PREVOIUS for page up and down and OPTION. The OPTION button will open the sub-menu with following functions:

Search, Thumbnails, List, Preview, Go to Folder, All Songs, Albums, Artists, Genres, Years, Playlists, Recently Played, recently Added, Name.
The yellow marked option displays the currently selected function.
During the playback you can press the OPTION button and select between following options:

- Repeat Off, Repeat One, Repeat All: Set repeat mode
- Shuffle Loop: Randomly select file in the play list during playback

4.5 Photo



In the Photo menu all supported picture files are displayed. You can browse all files and can play the picture file that you have selected.
In the Photo menu you can you following buttons of the remote control: Navigational buttons, PLAY, NEXT + PREVOIUS for page up and down, and OPTION. The OPTION button will open the sub-menu with following functions:
Search, Thumbnails, List, Preview, Photo Directory, Folder View, Date View, All Photos and Albums.
The yellow marked option displays the currently selected function.
During the playback you can press the OPTION button and select between following options:

- Slide Timing: Setting the display time of each picture.
- Slide Transition: Optional special effects when switch picture
- Set repeat mode: Repeat Off, Repeat All
- Shuffle Loop: Randomly select files during Slide Show
- Select Music: Background music playback
- Video Setting: Set Brightness, Contrast, Saturation, Hue

5. Using the Auto Start function

The auto start function enables automatic playback of video, music or photo files directly after switching on the device. You can store the files on an USB drive .The repeat mode for video playback (One file, All files, Repeat off) can be set or changed during the playback and is preserved even after rebooting the device.
The auto start function can be executed either from the standby mode or the main switch on the back side.

5.1. Set the Auto Start folders

- Create a folder called "autoplay" in the root directory of the disk
- Create three subfolders named "movie", "music" and "photo" and sort your movie, music and photo files into the related folder
- Enable the option "Auto Start after power-on" at the Setup menu and set the desired start folder.
- Turn the unit off and on again and then set the preferred repeat mode during video playback.

6. Upgrading the Firmware

The firmware is the operating system (OS) installed on the device. Firmware upgrades can bring new features, improvements and bug fixes.

Please refer to **USB Upgrade** in chapter 4.4.2 for more details.

Then the upgrade process will start automatically.

7. Appendixes

7.1 Specifications

I/O INTERFACES SUPORTED:

- USB 2.0 HOST port (compatible to USB 1.1)
- Composite (CVBS) A/V jack
- HDMI V1.3 interface
- S/PDIF coaxial jack
- DC-IN

FILE SYSTEM SURPORTED:

- FAT/FAT32/NTFS/EXT3

CONTENT FORMATS SUPPORTED:

- AVI, VOB, MKV, MOV, MP4, MPG, M4V, TS, WMV, DAT, IFO, RM, RMVB, ISO (DVD & BluRay), AVC, AVCHD, MTS, M2TS, M4V, ASF, FLV, XviD, DivX 3/4/5, resolution up to 720p/1080i/1080p
- MP3, OGG, WMA, WAV, FLAC, DOLBY DIGITAL, DOLBY DIGITAL PLUS, DTS, DTS True HD & Downmix
- HD JPEG, JPG, BMP, GIF, TIF, PNG

VIDEO CODECS SURPORTED:

- MPEG-1
- HD MPEG-2
- HD MPEG-4 SP/ASP/AVC (H.264)
- WMV9 (VC-1)
- RealNetworks (RM/RMVB) 8/9/10, up to 720p

AUDIO CODECS SURPORTED:

- MP2/3, OGG Vorbis, WMA (DRM, and Advanced Profile not supported), PCM, LPCM, MS-ADPCM, COOK, RA-Lossless

SUBTITLE FORMATS SURPORTED:

- SRT, SMI, SSA, ASS, IDX/SUB, SUB

PHYSICAL DIMMENSION:

- 146 x 110 x 34mm (WxDxH)

POWER::

- **Input: 100-240V ~ 50/60Hz**
- **Output: 5V, 2.0A**
- **Standby: 0.3W**
- **OFF: 0.0W**

Note: The specifications and design of this product are subject to change without notice.

All the information contained in this manual was correct at the time of publication. However, as our engineers are always updating and improving the product, your device's software may have a slightly different appearance or modified functionality than presented in this manual.

7.2 Frequently Asked Questions

Question 1. My files have disappeared from the player.

Answer: Make sure that you browse your files via the correct browser mode which means correct filtered views such as Photos, Music, or Movies.

Question 2. During power on, why does the TV will have a short flashing, blue screen or screensaver?

Answer: This is normal, when the system initializes, it will setup the corresponding parameters so it can output the correct video signal to the TV, during the initializing time, the TV will receive incorrect signals or the signals will not be stable and will cause the TV screen to flash, some TV's will treat this as no signal, and will display a blue screen or screensaver.

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What your warranty *does not* cover:

-Acts of nature, such as fire, static discharge.

-Damage from unauthorized repair, alteration or accident.

-Damage from misuse or neglect.

-A unit that has been modified or incorporated into other products or is used for institutional or other commercial purposes.

-Loss of customer's software, firmware, information, or memory data.

-Improper handling or installation.

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